BRUHAT BANGALORE MAHANAGARA PALIKE

PWD FORM - 45 (WORK SLIP)

Name of Work: Package - 04 includes 7 Works: 1. Improvements to Roads and Drains in BEL Layout, HMT Layout, Rajivagandhi Nagar (NTI), Thindhu and surrounding in ward No. 09, 2. Improvements to Roads and Drains in Thindlu colony, Narasipura layout, Kempegowdnagara and surrounding area in ward No. 09,3. Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10, 4. Improvements to roads and drains at Amruthahalli main road,Improvements to Roads and Drains in Kuvempu Nagara, Singapura, Ramachandrapura and surrounding areas in ward no-11, 5. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07, 6. Improvements to Roads and drains at bhadrappa layout and balaji layout and surrounding area in ward number - 08, 7. Improvements to roads and drains in Kodigehalli colony, Maruthinagara, BB Nagar and surrounding area in ward no.

Name of Agency: Sri. B.B. Umesh, Contractor, # 385, Bettaulsur (P), Bangalore North Taluk – 562 157.

Estimated Cost: 5,70,00,000.00

Tender Amount : Rs. 5,78,39,908.80 Lakhs

Work Order No. BBMP/EE/BTP/WO/110 /2019-20 Dated: 17/10/19

SL. No.	Description	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual executed Qty.	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2018-19+/- T.P	Amount				
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	#
1	Removing and resetting footpath slab (P.no.256,I no.37.56 of pw, P&IWTDd SR 2018/19)	Sqm	4190.10	208.82	874976.68	4190.10	235.97	988737.90	5470.80	5237.63	235.97	**1235923.55**	233.17	235.97	**55021.12**	**1290944.68**		302206.78	
2	KSRRB 300-1. **Earth work excavation** by manual means in Ordinary Soil soil involving an average horizontal throw upto 2	Cum	5449.66	137.80	750963.15	5449.66	155.71	848566.56	8319.40	6812.08	155.71	**1060708.98**	1507.32	155.71	**234704.80**	**1295413.77**		446847.22	
3	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam**	Sqm	2638.39	2001.28	5280157.14	2638.39	2261.50	5966718.99	4140.06	3297.99	2261.50	**7458404.39**	842.07	2261.45	**1904299.20**	**9362703.59**		3395984.60	
4	KSRRB 500-4: providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium	Sqm	11471.25	36.04	413423.85	11471.25	40.73	467224.01	18999.55	14339.06	40.73	**584029.91**	4660.49	38.33	**178636.58**	**762666.50**		295442.48	
5	KSRRB 500-11. Providing and laying **bituminous macadam** on Prepared Surface with crushed Coarse aggregates as per	Cum	615.58	6172.38	3799593.68	615.58	6974.79	4293541.23	949.98	769.48	6974.79	**5366961.41**	180.50	6737.63	**1216142.22**	**6583103.62**		2289562.40	
6	KSRRB 500-9: providing and applying **tack coat** on granular base such as WBM and WMM surfaces hot bitumen primed at 10 kg per	Sqm	61174.00	12.72	778133.28	61174.00	14.37	879070.38	49756.15	49756.15	14.37	**714995.88**	0.00	0.00	**0.00**	**714995.88**	164074.50		
7	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an	Cum	2544.83	8869.02	22570148.17	2544.83	10021.99	25504260.81	1990.25	1990.25	10021.99	**19946265.60**	0.00	0.00	**0.00**	19946265.60	5557995.21		

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			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2018-19+/- T.P	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	#
8	ksrrb m300 - 54 Construction of embankment with approved material deposited at site from roadway cutting and	Cum	776.85	100.70	78228.80	776.85	113.79	88397.76	776.85	776.85	113.79	88397.76	0.00	0.00	0.00	88397.76	0.00		
9	KSRRB M800-13. Providing and laying of **hot applied thermoplastic** compound 2.5 mm thick including reflectorising glass	Sqm	1513.00	454.74	688021.62	1513.00	513.86	777470.18	1706.05	1706.05	513.86	876670.85	0.00	0.00	0.00	876670.85		99200.67	
10	KSRB 15-17.5: Applying **priming coat** over new wood surface and / or wood based surface preparing the surface after thoroughly	Sqm	150	53	7950.00	150.00	59.89	8983.50	942.00	187.50	59.89	11229.38	754.50	116.19	87665.36	98894.73		89911.23	
11	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface		912.00	65.72	59936.64	912.00	74.26	67725.12	150.00	150.00	74.26	11139.00	0.00	0.00	0.00	11139.00	56586.12		
12	**Dismantling cement concrete flooring** or plain cement concrete work including removing and conveying the debris to	Sqm	1383.50	91.16	126119.86	1383.50	103.01	142514.34	1054.50	1054.50	103.01	108624.05	0.00	0.00	0.00	108624.05	33890.29		
13	KSRRB M300-59.2: **loosening, leveling and compacting** original ground supporting embankment to facilitate placement of first	Sqm	2918.50	24.38	71153.03	2918.50	27.55	80404.68	2589.50	2589.50	27.55	71340.73	0.00	0.00	0.00	71340.73	9063.95		
14	KSRB-4-1.3 : Providing and laying in position **plain cement concrete** of mix M 1:4:8 withOPC cement at 180kgs with 40mm and	Cum	591.73	5408.12	3200146.85	591.73	6111.18	3616168.54	480.25	480.25	6111.18	2934894.20	0.00	0.00	0.00	2934894.20	681274.35		
15	Constructing un-reienforced palne cemetn conctere for pavements using rate **concrete M30** Over a prepared base with OPC	Cum	326.40	5210.96	1700857.34	326.40	5888.38	1921967.23	253.00	253.00	5888.38	1489760.14	0.00	0.00	0.00	1489760.14	432207.09		
16	KSRRB M2600-3: (ii) Providing & fixing 20 mm thick compressible fibre board in **expansion joint** complete as per drawing &	M	1180.50	135.68	160170.24	1180.50	153.32	180994.26	1006.50	1006.50	153.32	154316.58	0.00	0.00	0.00	154316.58	26677.68		
17	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floating disc including cost	Sqm	3264.00	72.08	235269.12	3264.00	81.45	265852.80	2530.00	2530.00	81.45	206068.50	0.00	0.00	0.00	206068.50	59784.30		
18	KSRRB 300-51: making 50mm x 50mm furrows at 450 to the centre line of the road and at one meters interval in the existing thin	Sqm	9990.00	5.30	52947.00	9990.00	5.99	59840.10	0.00	0.00	5.99	0.00	0.00	0.00	0.00	0.00	59840.10		

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			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2018-19+/- T.P	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	#
19	RCC Covering slabs for culverts Data rate:5111rs/Piece)	No's	72.00	5111.00	367992.00	72.00	5775.43	415830.96	72.00	72.00	5775.43	415830.96	0.00	0.00	0.00	415830.96		0.00	
20	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering	Sqm	450.00	2100.00	945000.00	450.00	2373.00	1067850.00	450.00	450.00	2373.00	1067850.00	0.00	0.00	0.00	1067850.00		0.00	
21	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs with 20mm and	Cum	146	5999	875854.00	146.00	6778.87	989715.02	146.25	146.25	6778.87	991409.74	0.00	0.00	0.00	991409.74		1694.72	
22	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in	Tonne	8.78	75223.96	660466.37	8.78	85003.07	746326.95	8.78	8.78	85003.07	746326.95	0.00	0.00	0.00	746326.95		0.00	
23	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and	Sqm	1222.32	309.52	378332.49	1222.32	349.76	427518.64	1222.32	1222.32	349.76	427518.64	0.00	0.00	0.00	427518.64		0.00	
24	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and	Sqm	1111.11	432.48	480532.85	1111.11	488.70	542999.46	1111.11	1111.11	488.70	542999.46	0.00	0.00	0.00	542999.46	0.00		
25	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc complete -do- 7.5	Sqm	1812	837	1516644.00	1812.00	945.81	1713807.72	310.50	310.50	945.81	293674.01	0.00	0.00	0.00	293674.01	1420133.72		
26	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6 stone hammerd	Sqm	20.09	4871.76	97873.66	20.09	5505.09	110597.26	20.09	20.09	5505.09	110597.26	0.00	0.00	0.00	110597.26	0.00		
27	KSRB 15.1.3: Providing Flush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to	Sqm	44.64	149	6651.36	44.64	168.37	7516.04	44.64	44.64	168.37	7516.04	0.00	0.00	0.00	7516.04	0.00		
28	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in	cum	73.10	305.64	22342.28	73.10	345.37	25246.55	332.78	91.38	345.37	31559.91	241.40	345.37	83372.32	114932.23		89685.68	
29	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320kgs, with 20mm and down size	cum	54.403	6491.88	353177.75	54.40	7335.82	399090.62	120.14	68.00	7335.82	498835.76	52.14	7335.82	382489.65	881325.41		482234.80	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	#
30	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320kgs. with 20mm and down size		4.506	6650.64	29967.78	4.51	7515.22	33863.58	21.10	5.64	7515.22	42385.84	15.46	7515.22	116185.30	158571.14		124707.56	
31	Providing and laying in position Plain Cement Concrete of mix M10 with OPC cement @ 220kgs. with 40mm and down size	cum	10.692	5449.68	58267.98	10.69	6158.14	65842.83	19.00	13.36	6158.14	82272.75	5.64	6158.14	34731.91	117004.66		51161.83	
32	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, Cutting, bending, hooking, placing in	M. Ton	50.31	60534.00	3045465.54	50.31	68403.42	3441376.06	11.75	11.75	68403.42	803740.19	0.00	0.00	0.00	803740.19	2637635.88		
33	Providing and removing Centering & Shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases	Sqm	40.392	249.48	10077.00	40.39	281.91	11386.91	77.76	50.49	281.91	14233.64	27.27	281.91	7687.69	21921.32		10534.41	
34	Providing and removing Centering & Shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended	Sqm	231.053	414.72	95822.30	231.05	468.63	108278.37	310.59	288.81	468.63	135345.03	21.78	468.63	10206.76	145551.79		37273.42	
35	Providing and removing Centering & Shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts.	Sqm	79.240	395.28	31321.99	79.24	446.67	35394.13	292.53	99.05	446.67	44242.66	193.48	446.67	86421.71	130664.38		95270.24	
36	Providing and removing Centering & Shuttering, strutting, propping etc., and removal of form work for sides ands soffits of beams,	Sqm	176.740	276.48	48865.08	176.74	312.42	55217.11	267.52	220.93	312.42	69022.95	46.59	312.42	14555.65	83578.60		28361.49	
37	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges	Sqm	5.520	291.6	1609.63	5.52	329.51	1818.90	8.78	6.90	329.51	2273.62	1.88	329.51	619.48	2893.10		1074.20	
38	Providing and constructing Burnt Brick masonry with approved quality of non-modular bricks of standard size of class designation 50	Sqm	72.315	7219.8	522099.84	72.32	8158.37	589972.53	65.32	65.32	8158.37	532904.73	0.00	0.00	0.00	532904.73	57067.80		
39	Providing and constructing granite/trap/basalt Size stone masonry in foundation with cement mortar 1:6 stone hammer dressed in	Cum	37.313	4359.96	162683.19	37.31	4926.75	183831.82	98.68	46.64	4926.75	229783.62	52.04	4926.75	256388.07	486171.69		302339.87	
40	Providing and constructing granite/trap/basalt size stone masonry in super structure with cement mortar 1:6, edges of stones chistle	Cum	12.721	5668.92	72114.33	12.72	6405.88	81489.20	20.01	15.90	6405.88	101853.49	4.11	6405.88	26328.17	128181.66		46692.46	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	8
41	Construction of partition wall 11.2 cms thick with non-modular ground moulded burnt bricks of class designation 35 with cement	Sqm	5.771	900.72	5198.06	5.77	1017.81	5873.78	0.00	0.00	1017.81	0.00	0.00	0.00	0.00	0.00	5873.78		
42	Providing 18mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding off corners	Sqm	293.385	200.88	58935.18	293.39	226.99	66595.46	143.96	143.96	226.99	32677.48	0.00	0.00	0.00	32677.48	33917.98		
43	Providing 20mm thick cement plaster in single coat with cement mortar 1:4 to stone masonry & concrete surface including	Sqm	407.719	252.72	103038.75	407.72	285.57	116432.31	520.95	509.65	285.57	145540.75	11.30	285.57	3226.94	148767.69		32335.38	
44	KSRB 15-3.14 Providing 12mm thick cement plaster in single coat with cement mortar 1:4 to Ceiling including rounding off	Sqm	75.456	192.24	14505.66	75.46	217.23	16391.31	210.71	94.33	217.23	20491.31	116.38	217.23	25281.23	45772.63		29381.23	
45	Providing and applying two coats with oil bound washable distemper Two Coats of distemper of approved brand and shade	Sqm	479.495	76.68	36767.68	479.50	86.65	41548.24	392.77	392.77	86.65	34033.52	0.00	0.00	0.00	34033.52	7514.72		
46	Providing and finishing external walls in two coats with Water Proof Cement paint of approved brand and shade to give an even	Sqm	293.385	74.52	21863.05	293.39	84.21	24705.95	606.29	366.73	84.21	30882.33	239.56	82.65	19799.63	50681.97		25978.02	
47	Providing and fixing Vitrified blessed tiles of approved make, quality and colour of size 600 x 600 x 10 mm thick fixed on bed of 12 thick	Sqm	119.734	1154.52	138235.30	119.73	1304.61	156206.17	0.00	0.00	1304.61	0.00	0.00	0.00	0.00	0.00	156206.17		
48	Providing skirting, dadoing, rises of steps with white glazed tiles on 6mm thick cement plaster 1:3 and jointed with white cement	Sqm	27.168	1272.24	34564.22	27.17	1437.63	39057.53	19.11	19.11	1437.63	27473.11	0.00	0.00	0.00	27473.11	11584.42		
49	Providing Mathi/Nandi wood frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and	cum	0.228	87255.4	19894.22	0.23	98598.56	22480.47	0.09	0.09	98598.56	8873.87	0.00	0.00	0.00	8873.87	13606.60		
50	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 30 mm thick with bottom and		5.680	4472.28	26297.01	5.68	5053.68	29715.64	5.04	5.04	5053.68	25470.55	0.00		0.00	25470.55	4245.09		
51	Providing and fixing in position in cement concrete 1:3:6 Steel glazed windows and Ventilators side hunging hung 2/3 openable	Sqm	10.800	3213	34700.40	10.80	3630.69	39211.45	21.60	13.50	3630.69	49014.32	8.10	3563.46	28864.03	77878.34		38666.89	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	#
52	Providing and fixing 304 - grade stainless steel hand rails of 14-gauge pipes for Ramps or Staircase are made out of stainless steel	Sqm	13.420	4501.00	60403.42	13.42	5086.50	68260.83	60.00	16.79	5086.50	85402.34	43.21	6972.39	301276.97	386679.31		318418.48	
																55045672.47		8634964.05	
	Sub Total 1				5008217.61														
	7.5% Electrification Charges				375616.32														
	Sub Total 2				46177543.17														
	GST @ 12%				5541305.18														
	DPR / PMC Charges @ 2%				1023715.22														
	Miscelaneous and unforgen charges	LS			73603.00														
	Total				**58200000.00**			57839897.18								55045672.47	11429197.76	8634964.05	
																	14.93 %		

Percentage Excess = $\frac{8634964.05}{57839897.18} \times 100$ = 14.93%

Approved Tender Amount

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

WORK slip approved

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division, Bangalore - 92

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